

50C

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/533,232A
Source: Pct
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PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/533,232A

DATE: 01/18/2006
TIME: 15:19:05

Input Set : E:\Updated 1392-10-19-2.ST25.txt
Output Set: N:\CRF4\01182006\J533232A.raw

3 <110> APPLICANT: Cooper, Bret
 5 <120> TITLE OF INVENTION: CELL PROLIFERATION-RELATED POLYPEPTIDES AND USES THEREFOR
 7 <130> FILE REFERENCE: 1392-10-19-2
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/533,232A
 C--> 9 <141> CURRENT FILING DATE: 2005-04-29
 9 <150> PRIOR APPLICATION NUMBER: US 60/436,565
 10 <151> PRIOR FILING DATE: 2002-12-26
 12 <160> NUMBER OF SEQ ID NOS: 349
 14 <170> SOFTWARE: PatentIn version 3.3
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 885
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Oryza sativa
 22 <220> FEATURE:
 23 <221> NAME/KEY: CDS
 24 <222> LOCATION: (1)..(885)
 26 <400> SEQUENCE: 1
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 28 Met Ala Pro Pro Cys Gly Asp Ala Ala Ala Ala Ser Ala Ala Pro
 29 1 5 10 15
 31 ggc ctg gcc aac ctg ctc att cgc gaa ggc gcc ggc ctc cct tcg cgt 96
 32 Gly Leu Ala Asn Leu Leu Ile Arg Glu Gly Ala Gly Leu Pro Ser Arg
 33 20 25 30
 35 ccc gaa cgg tac ccg cca ttc cgg ccc tgt act tct gat tcc ttt gct 144
 36 Pro Glu Arg Tyr Pro Pro Phe Arg Pro Cys Thr Ser Asp Ser Phe Ala
 37 35 40 45
 39 cca atc tct agg gaa ggg gac gat att ccc ccc caa aaa aaa tcg gtt 192
 40 Pro Ile Ser Arg Glu Gly Asp Asp Ile Pro Pro Gln Lys Lys Ser Val
 41 50 55 60
 43 tct tta cgc agc ggc ggc ggc aat gcg gca gag agg gag gag ggc 240
 44 Ser Leu Arg Ser Gly Gly Gly Asn Ala Ala Glu Arg Glu Glu Gly
 45 65 70 75 80
 47 ggt gcg aac agg aac ggg aag aag gag aag acc ggg gcg cag agg atc 288
 48 Gly Ala Asn Arg Asn Gly Lys Lys Glu Lys Thr Gly Ala Gln Arg Ile
 49 85 90 95
 51 acc ggg tgg ggg ctc cgt gag ttc agc aag ata gtt tct aag aaa gtt 336
 52 Thr Gly Trp Gly Leu Arg Glu Phe Ser Lys Ile Val Ser Lys Lys Val
 53 100 105 110
 55 gag gcc aaa gga aga acc aca tat aat gag gtt gcc gat gag att ttt 384
 56 Glu Ala Lys Gly Arg Thr Tyr Asn Glu Val Ala Asp Glu Ile Phe
 57 115 120 125
 59 gcg gag ctg aag tcc att acg cag aac ggt ctg gag ttt gat gag aag 432
 60 Ala Glu Leu Lys Ser Ile Thr Gln Asn Gly Leu Glu Phe Asp Glu Lys

(pg. 6)

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Input Set : E:\Updated 1392-10-19-2.ST25.txt
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61	130	135	140	
63	aat att agg cgg agg gta tat gat gct ttc aat gtg ctc att gca att			480
64	Asn Ile Arg Arg Arg Val Tyr Asp Ala Phe Asn Val Leu Ile Ala Ile			
65	145	150	155	160
67	cgt gtt att gca aaa gat aaa aag gag ata aag tgg atg ggc ctt act			528
68	Arg Val Ile Ala Lys Asp Lys Lys Glu Ile Lys Trp Met Gly Leu Thr			
69	165	170	175	
71	aat tat aga tac gaa aag ata cag aag ttg gag gaa gtt cac aaa gaa			576
72	Asn Tyr Arg Tyr Glu Lys Ile Gln Lys Leu Glu Glu Val His Lys Glu			
73	180	185	190	
75	ctc atc acc agg atc aag aat aag aag ctt ctc cag gaa att gaa			624
76	Leu Ile Thr Arg Ile Lys Asn Lys Lys Leu Leu Gln Glu Ile Glu			
77	195	200	205	
79	aag cag ttt gat gac ctt cag aat att aca tta cgc aac cag gct agt			672
80	Lys Gln Phe Asp Asp Leu Gln Asn Ile Thr Leu Arg Asn Gln Ala Ser			
81	210	215	220	
83	cag agg cca gca gaa agt gtt aat ggc atc ctc ctt ccg ttc tta ttg			720
84	Gln Arg Pro Ala Glu Ser Val Asn Gly Ile Leu Leu Pro Phe Leu Leu			
85	225	230	235	240
87	atc aag aca tcc cga aaa gca agg gtg gaa att gag att tcg gaa gat			768
88	Ile Lys Thr Ser Arg Lys Ala Arg Val Glu Ile Glu Ile Ser Glu Asp			
89	245	250	255	
91	tcg aag ttt gca cgg ttc gac ttc aac ggt gca cca ttc acc atg cat			816
92	Ser Lys Phe Ala Arg Phe Asp Phe Asn Gly Ala Pro Phe Thr Met His			
93	260	265	270	
95	gat gat gta tca atc ctt gaa gcc atc agg cgt aac aaa gga aga gct			864
96	Asp Asp Val Ser Ile Leu Glu Ala Ile Arg Arg Asn Lys Gly Arg Ala			
97	275	280	285	
99	ggc ctc tcc att cac cct taa			885
100	Gly Leu Ser Ile His Pro			
101	290			
104	<210> SEQ ID NO: 2			
105	<211> LENGTH: 294			
106	<212> TYPE: PRT			
107	<213> ORGANISM: Oryza sativa			
109	<400> SEQUENCE: 2			
111	Met Ala Pro Pro Cys Gly Asp Ala Ala Ala Ala Ser Ala Ala Pro			
112	1	5	10	15
115	Gly Leu Ala Asn Leu Leu Ile Arg Glu Gly Ala Gly Leu Pro Ser Arg			
116	20	25	30	
119	Pro Glu Arg Tyr Pro Pro Phe Arg Pro Cys Thr Ser Asp Ser Phe Ala			
120	35	40	45	
123	Pro Ile Ser Arg Glu Gly Asp Asp Ile Pro Pro Gln Lys Lys Ser Val			
124	50	55	60	
127	Ser Leu Arg Ser Gly Gly Gly Asn Ala Ala Glu Arg Glu Glu Gly			
128	65	70	75	80
131	Gly Ala Asn Arg Asn Gly Lys Lys Glu Lys Thr Gly Ala Gln Arg Ile			
132	85	90	95	
135	Thr Gly Trp Gly Leu Arg Glu Phe Ser Lys Ile Val Ser Lys Lys Val			

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Input Set : E:\Updated 1392-10-19-2.ST25.txt
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136	100	105	110
139	Glu Ala Lys Gly Arg Thr Thr Tyr Asn Glu Val Ala Asp Glu Ile Phe		
140	115	120	125
143	Ala Glu Leu Lys Ser Ile Thr Gln Asn Gly Leu Glu Phe Asp Glu Lys		
144	130	135	140
147	Asn Ile Arg Arg Arg Val Tyr Asp Ala Phe Asn Val Leu Ile Ala Ile		
148	145	150	155
151	Arg Val Ile Ala Lys Asp Lys Lys Glu Ile Lys Trp Met Gly Leu Thr		
152	165	170	175
155	Asn Tyr Arg Tyr Glu Lys Ile Gln Lys Leu Glu Glu Val His Lys Glu		
156	180	185	190
159	Leu Ile Thr Arg Ile Lys Asn Lys Lys Leu Leu Gln Glu Ile Glu		
160	195	200	205
163	Lys Gln Phe Asp Asp Leu Gln Asn Ile Thr Leu Arg Asn Gln Ala Ser		
164	210	215	220
167	Gln Arg Pro Ala Glu Ser Val Asn Gly Ile Leu Pro Phe Leu Leu		
168	225	230	235
171	Ile Lys Thr Ser Arg Lys Ala Arg Val Glu Ile Glu Ile Ser Glu Asp		
172	245	250	255
175	Ser Lys Phe Ala Arg Phe Asp Phe Asn Gly Ala Pro Phe Thr Met His		
176	260	265	270
179	Asp Asp Val Ser Ile Leu Glu Ala Ile Arg Arg Asn Lys Gly Arg Ala		
180	275	280	285
183	Gly Leu Ser Ile His Pro		
184	290		
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188	<211> LENGTH: 1041		
189	<212> TYPE: DNA		
190	<213> ORGANISM: Oryza sativa		
193	<220> FEATURE:		
194	<221> NAME/KEY: CDS		
195	<222> LOCATION: (1)..(1041)		
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202	ggg agc gag ggc tcc ccc acc ggc cgc gcc gcg ccg ggc atg cag ggc		96
203	Gly Ser Glu Gly Ser Pro Thr Gly Arg Ala Ala Pro Gly Met Gln Gly		
204	20 25 30		
206	ggc ggc agc gcc gcc ccc gcc tcg gcc tcc gcg tcc acg ccg		144
207	Gly Gly Ser Ala Ala Thr Pro Ala Ala Ser Ala Ser Thr Pro		
208	35 40 45		
210	gcc agc gag acc acc gtc gcc cgc cgc ctc gac ggc ctc gac atc cag		192
211	Ala Ser Glu Thr Thr Val Ala Arg Arg Leu Asp Gly Leu Asp Ile Gln		
212	50 55 60		
214	ggc gac gac gcg ccc tcg tcg cag ccc gcc acg agc aag aag aaa aaa		240
215	Gly Asp Asp Ala Pro Ser Ser Gln Pro Ala Thr Ser Lys Lys Lys		
216	65 70 75 80		
218	agg ggg cct gga aca cgt gca acg ggc cct gac aag ggt ggc cgt gga		288

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 Output Set: N:\CRF4\01182006\J533232A.raw

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219 Arg Gly Pro Gly Thr Arg Ala Thr Gly Pro Asp Lys Gly Gly Arg Gly
220          85          90          95
222 ttg cgc caa ttt agt atg aaa gtt tgt gag aaa gtt gaa agc aaa ggg      336
223 Leu Arg Gln Phe Ser Met Lys Val Cys Glu Lys Val Glu Ser Lys Gly
224          100         105         110
226 aga aca acc tac aac gag gtg gca gat gag ctt gta gct gag ttt gca      384
227 Arg Thr Thr Tyr Asn Glu Val Ala Asp Glu Leu Val Ala Glu Phe Ala
228          115         120         125
230 gac ccc aac aat aat ttt gca tca cct gat cct gac aac cct aac aca      432
231 Asp Pro Asn Asn Asn Phe Ala Ser Pro Asp Pro Asp Asn Pro Asn Thr
232          130         135         140
234 cca caa ttt gat gag aaa aat ata cga cga agg gtt tat gat gca ttg      480
235 Pro Gln Phe Asp Glu Lys Asn Ile Arg Arg Arg Val Tyr Asp Ala Leu
236          145         150         155         160
238 aat gtc ctg atg gct atg gat att ata tct aag gat aaa aag gaa att      528
239 Asn Val Leu Met Ala Met Asp Ile Ile Ser Lys Asp Lys Lys Glu Ile
240          165         170         175
242 cag tgg aag ggc ttg cct cgg aca agt atg agc gat gtt gaa gaa ttg      576
243 Gln Trp Lys Gly Leu Pro Arg Thr Ser Met Ser Asp Val Glu Glu Leu
244          180         185         190
246 aag aca gag atc atc gga ctg aaa ggt agg atc gac aag aaa aat gca      624
247 Lys Thr Glu Ile Ile Gly Leu Lys Gly Arg Ile Asp Lys Lys Asn Ala
248          195         200         205
250 tat ttg cag gag tta gaa gat caa ttt gta ggt ctt caa aac ttg gca      672
251 Tyr Leu Gln Glu Leu Glu Asp Gln Phe Val Gly Leu Gln Asn Leu Ala
252          210         215         220
254 cag cga aac gag cag ctt tat ggt tca gga aat gct cct tca gga gga      720
255 Gln Arg Asn Glu Gln Leu Tyr Gly Ser Gly Asn Ala Pro Ser Gly Gly
256          225         230         235         240
258 gtg gca ttg cca ttt ata ttg gtg cag aca cgt cct cat gct aca gta      768
259 Val Ala Leu Pro Phe Ile Leu Val Gln Thr Arg Pro His Ala Thr Val
260          245         250         255
262 gaa gtg gag ata tca gaa gat atg cag ctg gtg cat ttt gat ttc aat      816
263 Glu Val Glu Ile Ser Glu Asp Met Gln Leu Val His Phe Asp Phe Asn
264          260         265         270
266 agc act cca ttt gaa ctg cat gac gat tcc ttt gta ctg aaa gca ttg      864
267 Ser Thr Pro Phe Glu Leu His Asp Asp Ser Phe Val Leu Lys Ala Leu
268          275         280         285
270 ggg ttc tct ggc aaa gaa cca gat gat acg caa gcc tgg gtt gga aat      912
271 Gly Phe Ser Gly Lys Glu Pro Asp Asp Thr Gln Ala Trp Val Gly Asn
272          290         295         300
274 gga ggt gag tgc tca acc aca cct atc tat cat caa tca ccc caa gtt      960
275 Gly Gly Glu Cys Ser Thr Thr Pro Ile Tyr His Gln Ser Pro Gln Val
276          305         310         315         320
278 gcg agg cca aac gga gtt aga cta cca aca tcg ccc cct att ccc ggt      1008
279 Ala Arg Pro Asn Gly Val Arg Leu Pro Thr Ser Pro Pro Ile Pro Gly
280          325         330         335
282 ata ctt aaa ggg cgt gtc aag cat gaa cat tag
283 Ile Leu Lys Gly Arg Val Lys His Glu His
  
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Input Set : E:\Updated 1392-10-19-2.ST25.txt
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284	340	345
287 <210> SEQ ID NO: 4		
288 <211> LENGTH: 346		
289 <212> TYPE: PRT		
290 <213> ORGANISM: Oryza sativa		
292 <400> SEQUENCE: 4		
294 Met Val Ser Gly Ala Ala His Ser Ala Ser Thr Ser Gly Gly Gly		
295 1 5 10 15		
298 Gly Ser Glu Gly Ser Pro Thr Gly Arg Ala Ala Pro Gly Met Gln Gly		
299 20 25 30		
302 Gly Gly Ser Ala Ala Thr Pro Ala Ala Ser Ala Ser Ala Ser Thr Pro		
303 35 40 45		
306 Ala Ser Glu Thr Thr Val Ala Arg Arg Leu Asp Gly Leu Asp Ile Gln		
307 50 55 60		
310 Gly Asp Asp Ala Pro Ser Ser Gln Pro Ala Thr Ser Lys Lys Lys Lys		
311 65 70 75 80		
314 Arg Gly Pro Gly Thr Arg Ala Thr Gly Pro Asp Lys Gly Arg Gly		
315 85 90 95		
318 Leu Arg Gln Phe Ser Met Lys Val Cys Glu Lys Val Glu Ser Lys Gly		
319 100 105 110		
322 Arg Thr Thr Tyr Asn Glu Val Ala Asp Glu Leu Val Ala Glu Phe Ala		
323 115 120 125		
326 Asp Pro Asn Asn Asn Phe Ala Ser Pro Asp Pro Asp Asn Pro Asn Thr		
327 130 135 140		
330 Pro Gln Phe Asp Glu Lys Asn Ile Arg Arg Arg Val Tyr Asp Ala Leu		
331 145 150 155 160		
334 Asn Val Leu Met Ala Met Asp Ile Ile Ser Lys Asp Lys Lys Glu Ile		
335 165 170 175		
338 Gln Trp Lys Gly Leu Pro Arg Thr Ser Met Ser Asp Val Glu Glu Leu		
339 180 185 190		
342 Lys Thr Glu Ile Ile Gly Leu Lys Gly Arg Ile Asp Lys Lys Asn Ala		
343 195 200 205		
346 Tyr Leu Gln Glu Leu Glu Asp Gln Phe Val Gly Leu Gln Asn Leu Ala		
347 210 215 220		
350 Gln Arg Asn Glu Gln Leu Tyr Gly Ser Gly Asn Ala Pro Ser Gly Gly		
351 225 230 235 240		
354 Val Ala Leu Pro Phe Ile Leu Val Gln Thr Arg Pro His Ala Thr Val		
355 245 250 255		
358 Glu Val Glu Ile Ser Glu Asp Met Gln Leu Val His Phe Asp Phe Asn		
359 260 265 270		
362 Ser Thr Pro Phe Glu Leu His Asp Asp Ser Phe Val Leu Lys Ala Leu		
363 275 280 285		
366 Gly Phe Ser Gly Lys Glu Pro Asp Asp Thr Gln Ala Trp Val Gly Asn		
367 290 295 300		
370 Gly Gly Glu Cys Ser Thr Thr Pro Ile Tyr His Gln Ser Pro Gln Val		
371 305 310 315 320		
374 Ala Arg Pro Asn Gly Val Arg Leu Pro Thr Ser Pro Pro Ile Pro Gly		
375 325 330 335		
378 Ile Leu Lys Gly Arg Val Lys His Glu His		

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/18/2006
PATENT APPLICATION: US/10/533,232A TIME: 15:19:06

Input Set : E:\Updated 1392-10-19-2.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 702
Seq#:5; Xaa Pos. 234
Seq#:6; Xaa Pos. 234
Seq#:59; Xaa Pos. 53
Seq#:60; Xaa Pos. 53
Seq#:79; Xaa Pos. 71
Seq#:80; Xaa Pos. 71
Seq#:111; Xaa Pos. 23,56,57,104,126
Seq#:112; Xaa Pos. 23,56,57,104,126
Seq#:121; Xaa Pos. 64
Seq#:122; Xaa Pos. 64
Seq#:137; Xaa Pos. 34
Seq#:138; Xaa Pos. 34
Seq#:151; Xaa Pos. 956,961,1086
Seq#:152; Xaa Pos. 956,961,1086
Seq#:161; Xaa Pos. 264
Seq#:162; Xaa Pos. 264
Seq#:293; Xaa Pos. 226
Seq#:294; Xaa Pos. 226
Seq#:303; Xaa Pos. 2,6
Seq#:304; Xaa Pos. 2,6

VERIFICATION SUMMARY

DATE: 01/18/2006

PATENT APPLICATION: US/10/533,232A

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Input Set : E:\Updated 1392-10-19-2.ST25.txt

Output Set: N:\CRF4\01182006\J533232A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:672
M:341 Repeated in SeqNo=5
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:224
L:5592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:192
L:5668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:48
L:7859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:240
L:8015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:64
L:11189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:96
M:341 Repeated in SeqNo=111
L:11365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:16
M:341 Repeated in SeqNo=112
L:12305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:192
L:12397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:48
L:13846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:144
L:14094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:32
L:16762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:2880
M:341 Repeated in SeqNo=151
L:17100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:944
M:341 Repeated in SeqNo=152
L:18054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161 after pos.:816
L:18166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162 after pos.:256
L:31623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293 after pos.:720
L:31703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:224
L:32484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:303 after pos.:48
L:32781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0